



# **Evaluating Proprietary BMPs: Is it Time for a State, Regional or National Program?**

March 24th, 2015



## Logistics

- WiFi Access
  - SSID:NVRC Guest
  - Password: welcometoNVRC
- Facilities
- Around the Room



## Order of the Day

- **Session 1: Setting the Stage on MTDs and the Bay Program**
  - Break
- **Session 2: Monitoring, Evaluation, and Existing programs**
  - Lunch
- **Session 3: What should an MTD evaluation program look like?**

# Workshop Questions

- What is the problem and why do we need MTDs?
- Why do we need an evaluation/testing program?
- What is the state of the science on evaluating stormwater treatment performance?
- What is the current process for evaluating nonproprietary BMPs in the Bay watershed? How do these BMPs get incorporated into the Bay Model?
- What are some of the existing, proposed, or formerly proposed MTD evaluation programs?
- What would a Bay MTD evaluation program potentially look like?

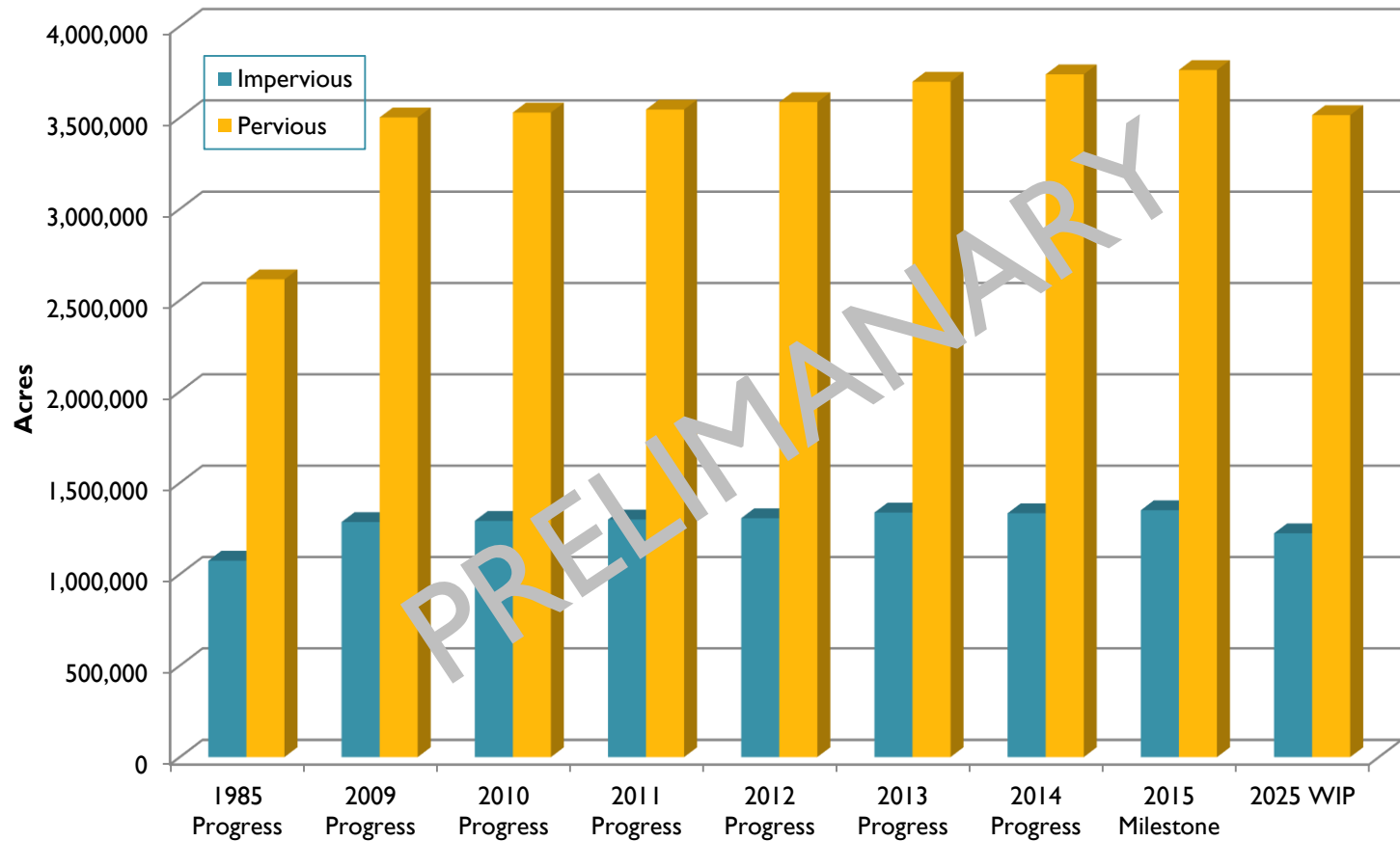
# Protocol for the Development, Review, and Approval of Loading and Effectiveness Estimates for Nutrient and Sediment Controls in the Chesapeake Bay Watershed Model

## *B. Proprietary Devices*

- “Proprietary BMPs are currently not eligible for nutrient and sediment reduction credits within the CBP modeling framework. When a sufficient number of non-proprietary designs for the BMP (e.g., floating wetland treatment BMP) have become available and been researched for removal efficiencies, then that class of BMPs will be eligible for the Expert Panel process. However, proprietary BMPs, which meet the definition(s) and qualifying conditions established by the Expert Panel for a class of BMPs, can receive nutrient and sediment reduction credit assigned to that class. Additional credit for proprietary design modifications to the BMP will not be granted.”



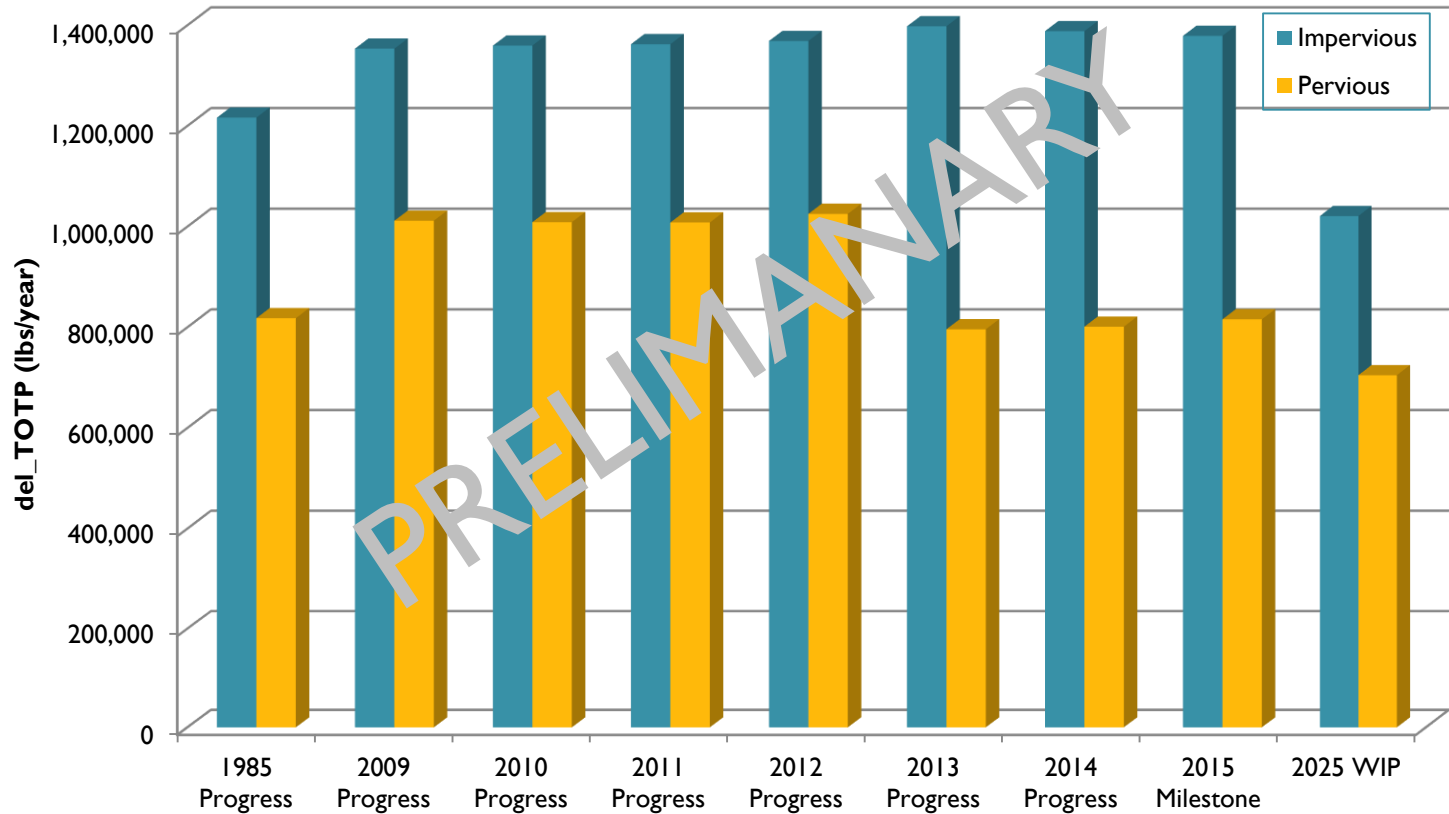
## Chesapeake Bay Urban Developed Acres



Source: CBP, SummaryLoads-Goals\_031015




## Chesapeake Bay Urban Loading: Delivered Phosphorus



Source: CBP, SummaryLoads-Goals\_031015

# Session 3: What Should an MTD evaluation program look like?

- There is a tremendous opportunity for manufactured stormwater treatment devices (MTDs)
- Atmosphere of great uncertainty about the devices and has resulted in the decision by the Chesapeake Bay Program not to accept MTDs for modeling urban stormwater TMDL attainment
- The hundreds of facilities being installed within the watershed are currently not being captured in TMDL Action Plans and local governments cannot claim nutrient/sediment credits

- 
- A challenge exists in balancing the need to monitor and verify nutrient removal performance of MTDs and the need to establish a reasonable process that encourages innovation and MTD product development
  - Questions regarding regional viability of existing testing protocols for ChesBay POCs.
  - There is a clear need for a rigorous, consistent, and scientifically defensible process that is transparent and affords manufacturers a clear path towards approval.